

Imate

175

PATENT

Attorney Docket No. P05396US01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: WEISS et al. Group Art Unit: 1756
SERIAL NO: 10/032,649 Examiner: SAGAR, Kripa
FILED: October 26, 2001 Confirmation No: 6169
TITLE: CHEMICAL FUNCTIONALIZATION NANOLITHOGRAPHY

**INFORMATION DISCLOSURE STATEMENT
BEFORE MAILING DATE OF EITHER A FINAL ACTION
OR NOTICE OF ALLOWANCE (37 C.F.R. § 1.97(c))**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This information disclosure statement is being filed *before* the mailing date of either a final action under § 1.113 or a notice of allowance under § 1.311, whichever occurs first.

Attached are Forms PTO/SB/08A and 08B (formerly Form PTO-1449) listing the relevant art known to the applicant herein. Copies of non-U.S. patents are enclosed. References that are U.S. patents are not required to be submitted. Copies of the references are enclosed. The Examiner is requested to consider the references and make them of record.

Applicant discloses herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose. Legible copies of all items listed in Forms PTO/SB/08A

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

☒ deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 4-14-2004

FACSIMILE

☐ transmitted by facsimile to the Patent and Trademark Office, Art Unit _____ at Fax No. (703) 872-_____.

John D. Goodhue
JOHN D. GOODHUE

and 08B (formerly Form PTO-1449) accompany this information statement, except those identified above.

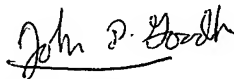
Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. A copy of the International Search Report is enclosed.

Authorization is hereby made to charge any additional fees required by this paper or credit any overpayment to Deposit Account 26-0084.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. (Notice of January 9, 1992, 1135 O.G. 13-25, at 25.)

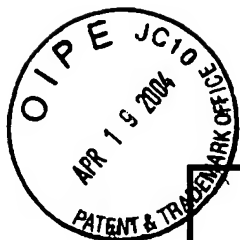
Respectfully submitted,



JOHN D. GOODHUE, Reg. No. 47,603
McKEE, VOORHEES & SEASE, P.L.C.
801 Grand Avenue, Suite 3200
Des Moines, Iowa 50309-2721
Phone No. (515) 288-3667
Fax No. (515) 288-1338
CUSTOMER NO: 27407

- pw -

Attorneys of Record



Form PTO/SA08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
Sheet	1	of	2	Application Number	10/032,649
				Filing Date	October 26, 2001
				First Named Inventor	WEISS, Paul S.
				Art Unit	1756
				Examiner Name	SAGAR, Kripa
				Attorney Docket Number	P05396US01

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5,648,201	07/15/1997	Dulcey et al.	
		US-			
		US-			
		US-			
		US-			
		US -			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		EP 0506 993 A1	10/07/1992	Geo-Centers, Inc.		
		WO 03/023517 A1	03/20/2003	Postech Foundation		
		WO 97/38802	10/23/1997	Texas A & M Univ. Sys		
		WO 97/39151	10/23/1997	Affymetrix, Inc.		
		WO 98/58293	12/23/1998	Biotoools - Institut....		

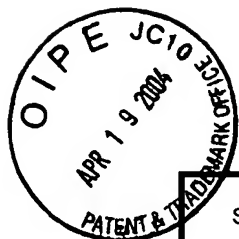
Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional).. ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		Complete if Known	
		Application Number	10/032,649
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Filing Date	October 26, 2001
		First Named Inventor	WEISS, Paul S.
		Group Art Unit	1756
		Examiner Name	SAGAR, Kripa
		Attorney Docket Number	P05396US01
Sheet	2	of	2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Calvert, "Lithographic patterning of self-assembled films", J. Vc. Sci. Technol. B. 11(6):2155-2163 (1993)	
		Goelzhaeser et al., "Chemical Nanolithography with Electron Beams", Advanced Materials, VCH Verlagsgesellschaft, Weinheim, DE, 13(11) 806-809 (2001)	
		Müller et al., "A Strategy of the Chemical Synthesis of Nanostructures", Science, Vol. 268, pp. 272-273 (1995)	
		Sakaki et al., "A Novel Synthesis of β -Ketothioesters", Chem. Pharm. Bull, 38(8) 2262-2264 (1990)	
		Yan et al., "Patterning a Preformed, Reactive SAM Using Microcontact Printing", J. Am. Chem. Soc. 120:6179-6180 (1998)	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

* EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.